

AVIONICS MAINTENANCE RECORD

AIRCRAFT SERIAL AND REGISTRATION T18208484 N223JM

D5520-1-13

INSTRUCTIONS

This record should be completed and maintained in accordance with FAA Federal Aviation Regulation 91.411 Altimeter system and altitude reporting equipment tests and inspections, 91.413 ATC transponder tests and inspections,

and

43.9, 43.11 and 91.215, and/or other prevailing government regulations.

NOTE: Record required tests in the back of this record
Record Service Letters and Airworthiness Directives in the back of this record as well as the Airframe Maintenance Record.

Copyright © 1996

Performed Altimeter, Encoder, Transponder and Static System
Certifications as per attached form. N 223 JM

ORIZED SIGNATL
RTIFICATE TYPE
& NUMBER

DATE 12 DEC MAKE GARMIN MODEL GDC 74 SERIAL NO. 478
 DATE 12 DEC 07 MAKE UNITED WEST INC MODEL 5934PAD-3D SERIAL NO. 449130

AIRCRAFT OWNER: John A. Feagin ADDRESS: 325 Mill Creek Cir
Vail, Co 81657
 REGISTRATION NUMBER: N 223 JM TYPE AIRCRAFT: Cessna 772
 SERIAL NUMBER: GARMIN GDC-74 WORK ORDER NUMBER: 14681
 S# 47802241 **ENCODING ALTIMETER TEST**

SCALE ERROR		T. OOO		TOL.
ALT. X1000	ERROR	ERROR	(. ± Ft.)	
-1	+5	.1	+10	20
0	-5	0	+15	20
.5	-15	.5	0	20
1.0	-20	1.0	+20	20
1.5	-20	1.5	+20	25
2.0	-25	2.0	+30	30
3.0	-25	3.0	+25	30
4.0	-10	4.0	+30	35
6.0	-15	6.0	+10	40
8.0	-30	8.0	-5	60
10.0	-40	10.0	-20	80
12.0	-30	12.0	-40	90
14.0	-10	14.0	-40	100
16.0	-20	16.0	-35	110
18.0	-20	18.0	-25	120
20.0	-20	20.0	-25	130
22.0	-4	22.0	-15	140
25.0	-4	25.0	-20	155
30.0	-10	30.0	+40	180
35.0	+2	35.0	+50	205

35 Thousand Foot Encoding Altimeter

Altitude in Feet Up		Altitude in Feet Down	
0900	-40	0850 ± Ft.	0900 +60
4,300	-50	4,250 ± Ft.	4,400 +50
10,500	-60	10,450 ± Ft.	10,600 +50
16,700	-50	16,650 ± Ft.	16,800 +50
19,900	-50	19,850 ± Ft.	20,000 +60
23,100	-50	23,050 ± Ft.	23,200 +50
24,000	-60	23,950 ± Ft.	24,100 +40
28,200	-50	28,150 ± Ft.	28,300 +40
33,800	-40	33,750 ± Ft.	33,900 +50
34,900	-40	34,850 ± Ft.	35,000 +60

Note: All altitudes are referenced at 29.92" barometric setting.
 * - Log difference reading in feet.
 ** - 125 feet Δ = 10% of ten evenly spaced check points ± 87 feet ±.

FREEDOM ATOMICS CO. #FDB221K
 JEFFERSON COUNTY AIRPORT
 BROOMFIELD, COLORADO 80020

SIGNATURE [Signature]
 DATE 12 Dec 07

have been performed. The Altimeter has been tested to 35,000 ft.

Signed [Signature]

Date: 12 DEC 07

FAA Approved Repair Station No. FDBR221K
Freedom Avionics Company
Rocky Mountain Metropolitan Airport
Broomfield, CO 80021

to comply with FAR 43, Appendix F.

Make GARMIN Model GTX 33

S/N: 89101812

Details on file under Work Order No. 14681

Date 12 DEC 07 Signature [Signature]

Freedom Avionics Company CRS No. FDBR221K
Rocky Mountain Metropolitan Airport
Broomfield, CO 80021



TAL TIME SERVICE RS 10t

Performed Altimeter, Encoder, Transponder and Static System Certifications as per attached form. N 223 JM

DATE 24 FEB 10 MAKE UNITED MODEL 5934PAD SERIAL NO. 449 DATE 24 Feb 10 MAKE Garmin MODEL GDC-74A SERIAL NO. 47802

AIRCRAFT OWNER: John A. Fratin REGISTRATION NUMBER: N 223 JM SERIAL NUMBER: Garmin GDC-74A P# 006-B0261-12 s# 47802241

ADDRESS: 325 Mill Creek Cir VAIL, CO 81657 TYPE AIRCRAFT: CESSNA T182T WORK ORDER NUMBER: 15523

ENCODING ALTIMETER TEST

Table with 2 columns: ALT. X1000, ERROR. Rows from -1 to 35.0.

Table with 2 columns: ALT. X1000, ERROR. Rows from -1 to 35.0.

35 Thousand Foot Encoding Altimeter

Table with 4 columns: Altitude in Feet Up, Altitude in Feet Down, and two columns of values. Rows from 0900 to 35,000.

Note: All altitudes are referenced at 29.92" barometric setting.

* - Log difference reading in feet.

** - 125 feet Δ = 10% of ten evenly spaced check points ≥ 87 feet ±.

DATE: 24 FEB 10 TEST BY: Robert Marshall

DATE: 24 Feb 10 TEST BY: Robert Marshall

FREEDOM AVIONICS CO. #FDBR221K JEFFERSON COUNTY AIRPORT BROOMFIELD, COLORADO 80020

SIGNATURE Robert Marshall DATE 24 Feb 10

FREEDOM AVIONICS CO. #FDBR221K

tests required by FAA 91.411
have been performed. The Altimeter
has been tested to 35,000 ft.

Signed Robert K. Kuntz

Date: 24 Feb 10

FAA Approved Repair Station No.
FDBR221K
Freedom Avionics Company
Rocky Mountain Metropolitan Airport
Broomfield, CO 80021

FAR 91.413 were performed
to comply with FAR 43, Appendix F.

Make GARMIN Model GTX-33

S/N: 89102688

Details on file under Work Order No. 15523

Date 24 Feb 10 Signature Robert K. Kuntz
Freedom Avionics Company CRS No. FDBR221K
Rocky Mountain Metropolitan Airport
Broomfield, CO 80021

N221K
om Avionics Company
Mountain Metropolitan Airport
field, CO 80021

Date 3-14-2012 Signature Dan Fisher
Freedom Avionics Company CRS No. FDB
Rocky Mountain Metropolitan Airport
Broomfield, CO 80021

A/C Cessna / T182T

N223JM

Tach: 0869.3 Hobbs: 2576.0

March 14, 2012

Transponder Make/Model **Garmin / GTX-33**, S.N. **89102688** in this
A/C, has been inspected IAW Title 14 CFR 91.413 and found to comply
with the specifications of Title 14 CFR 43 App. F. S.W. ver. 5.01.

Air Data Computer Make/Model **Garmin / GDC-74A**, S.N. **47802241**,

Altimeter #2 Make/Model **United / 5934PAD-3**, S.N. **449130**, and the

Static System have been inspected IAW Title 14 CFR 91.411 and found to
comply with the specifications of Title 14 CFR 43 App E.

Details on file under MTSWO 20319

CRS TJJR625X

Dan Fisher-Chief Inspector

Dan Fisher

Date 3-14-2012

Mobile Transponder Services, LLC, 8266-A Cessna Dr. Peyton, CO 80831

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TO
IN

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A/C Cessna / T182T

N223JM

Tach: 1078.5 Hobbs: 1202.5

May 8, 2014

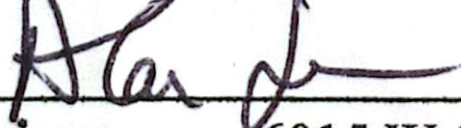
Transponder Make/Model Garmin / GTX-33, S.N. 89102688 in this

A/C, has been inspected IAW Title 14 CFR 91.413 and found to comply with the specifications of Title 14 CFR 43 App. F. S.W. ver. 5.01.

Air Data Computer Make/Model Garmin / GDC-74A, S.N. 47802241, Altimeter #2 Make/Model United / 5934PAD-3, S.N. 449130, and the Static System have been inspected IAW Title 14 CFR 91.411 and found to comply with the specifications of Title 14 CFR 43 App E.

Details on file under MTSWO 40518

CRS TJJR625X

Alan Spencer- Inspector 

Date 5-8-2014

Mobile Transponder Services, LLC, 6015 W Condor Rd. Peyton, CO 80831

MAINTENANCE RECORD

Next Due Before
7-1-2018

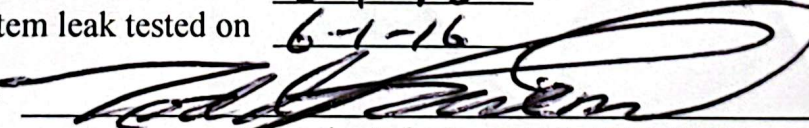
TOTAL TIME	
IN SERVICE	
HRS	10ths

AVJET AVIONICS
253 Warbird Lane – Driggs, ID 83422
208-354-3187 – FAA C.R.S. I86R021Y
N 223JM S/N T18208484

I certify that the altimeter and static system tests required by 14 CFR part 91.411 and transponder tests, including data correspondence, required by part 91.413, have been performed and found to comply with 14 CFR part 43, appendix E and F.


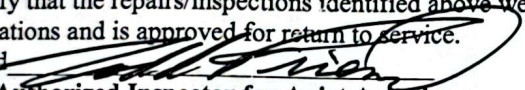
Altimeter Model: GARMIN GDC-74A Serial No. 47802241
 Transponder Model: GARMIN GTX-33 Serial No. 89102688
~~BARO~~ Encoder Model: UNITED 5934PAD-30 Serial No. 449130

The altimeter was tested to 35,000 feet on 6-1-2016
 Encoder data correspondence was tested to 35,000 feet on 6-1-16
 The transponder was tested on 6-1-16
 Static system leak tested on 6-1-16

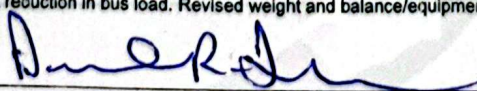
Signature: 
 For Avjet Avionics, C.R.S. I86R021Y

AUTHORIZED SIGNAT CERTIFICATE TYP & NUMBER

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19			 <p>Avjet Avionics 253 Warbird Lane Driggs, ID 83422 208-354-3187</p> <p>Date-6/7/2016 N223JM Make- Cessna Model- T182T Tach-1361.4</p> <p>Removed SigmaTek backup Attitude Horizon PN 5000B-75 sn T88524Q and sent unit to instrument shop for overhaul. Reinstalled horizon into aircraft and ran engine for ground test. System tested good.</p> <p>All equipment installed as per manufacturers individual installation manuals and tested as per manufacturers operational manuals.</p> <p>I certify that the repairs/inspections identified above were performed in accordance with current Federal Aviation Regulations and is approved for return to service. Signed:  Authorized Inspector for Avjet Avionics</p> <p style="text-align: right;">CRS I86R021Y</p>	

MAINTENANCE RECORD

DATE	TOTAL TIME IN SERVICE		DESCRIPTION OF THE WORK PERFORMED	AUTHORIZED SIGNATURE, CERTIFICATE TYPE & NUMBER
	HOURS	10ths		
19			<p>AIRFRAME LOG</p> <p style="text-align: right;">LEADING EDGE JET CENTER</p> <p>N223JM Model: Cessna T182T S/N: T18208484 Date: 07/19/2019 Hobbs: 1442.8 W.O.# AVI-19-0051</p> <p>Removed Garmin GTX33 transponder P/N 011-00779-10, S/N 89102688, rack and connectors from radio stack. Installed new Garmin GTX345R with ADS-B IN and OUT capability P/N 011-03303-40, S/N 3EH421296 in location vacated by removed transponder IAW STC SA01714W1. Incorporated latest revision of the FAA approved AFMS, 190-00734-15 in the aircraft POH and the latest revision of section 4 "Instructions for Continued Airworthiness" from the GTX345 ADS-B maintenance manual, 190-00734-11 in the aircraft permanent records. Installed Garmin GA35 WAAS/GPS antenna P/N 013-00235-00, S/N 170849 IAW STC SA02018SE-D at FS+69.0. Incorporated latest revision of the GA35 "Instructions for Continued Airworthiness", 005-00638-09 in the aircraft permanent records. See FAA form 337 dated 7/19/2019. Configuration and operational checks completed referencing section 7 and 8 of Garmin GTX345 Part 23 AML STC installation manual, 190-00734-10, Rev. 12, April 2019 with no defects noted. Garmin GTX345R transponder S/N 3EH421296 tested as required by FAR 91.413 and meets the requirements of FAR Part 43 appendix F. ELA completed resulting in a .093 amp net reduction in bus load. Revised weight and balance/equipment list. Pertinent details on file this location</p> <p>Signed:  For: LEADING EDGE JET CENTER, LLC. FAA certified Repair Station #16MFO03L 63132 Powell Butte Hwy Bend, OR 97701 541-388-0019</p>	

MAINTENANCE RECORD

TO
IN
DU



VAN BORTEL AIRCRAFT INC™

4912 S. Collins St., Arlington, TX 76018

FAA CRS VNR171L

N223JM SN: T18208484 Tach: 1677.4 DATE 05/12/21 W.O. AV10132

The Altimeter systems, Altitude Reporting Equipment and Transponder have been tested and inspected as required by FAR 91.217, 91.411 in accordance with Part 43 Appendix "E" and FAR 91.413 in accordance with Part 43 Appendix "F". Aircraft static systems leak tests good. Altimeter and ADC tested to 35,000 ft.

Air Data/GDC-74A	PN 011-00882-00	SN 47802241
Altimeter/United	PN 5934PAD-3D	SN 449130
Transponder/GTX-345R	PN 011-03303-40	SN 3EH421296

THE AIRCRAFT IDENTIFIED ABOVE WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE WITH RESPECT TO THE WORK ABOVE. PERTINENT DETAILS OF THE REPAIRS ARE ON FILE AT THIS REPAIR STATION UNDER THIS WORK ORDER.


Gary S. Conover
Inspector